

# MISSOURI ARCHITECT

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DIRECTORY ISSUE

JULY, 1969

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# President's Letter

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Dear Members:

It is a busy time for your new President. Committees must be named, the agenda for the coming year established, and a smooth transition from the capable hands of Jim Darrough accomplished. While this routine is in progress, there are two issues that I should like to share with you. One involves us all internally as an organization. The other can affect each of us in the practice of our profession.

This looks to be a year of challenge and change for MARA. The membership at our Annual Meeting in St. Louis directed that affiliation with the AIA be explored.

The pros and cons of such a union are many. Strong stands on either side of the issue may be expected. Any member is encouraged to express his views by writing or calling either myself or our office in Jefferson City.

This page will give progress reports on this matter throughout the year for the benefit of the entire membership.

Construction in Kansas City is at a standstill. Three unions, the pipefitters, plumbers, and lumber yard delivery drivers are on strike. While we hope that present negotiations may bring about an early settlement of disputes, we can't help but wonder at the reasonableness of wage demands. Certainly honest effort, whether skilled or unskilled, should bring a just and adequate compensation. But what is just and what is adequate?

If we compare the hourly rate of a skilled craftsman, for instance, with the hourly rate that we, ourselves, may enjoy quite possibly we are found wanting in the balance.

Under such an economic picture, should we urge for a higher fee schedule? Historically, those that lead and direct receive a greater reward than those that follow and do. Or, are we going to stand idly by while the weight of the dollar shoves us into a minor role as the volume and tempo of construction increases?

These words suggest no answer, but do present something to think about. How we may react will determine the prestige which we must enjoy from the business and commercial world if we are to function as true professionals. Architects and architecture must never be reduced to plan producers or building technicians.

Kenneth E. Coombs  
President



## *The Editor Observes:*

Your editor welcomes this opportunity to sound off on matters pertinent to the rapidly-changing professional situation today. As your newly-installed Vice President, I have been informed that I also fall heir to the new duty of editor of *The Missouri Architect*.

I shall welcome contributions from all the membership, and I'm planning on sending a letter to the Directors, requesting that they make contributions to the *Missouri Architect*, thereby assuring as good a representation as possible for the entire state. With our new format, the *Missouri Architect* affords an excellent opportunity for the membership to establish a very fine communication link both internally and with others receiving our publication.

I'd like to take this opportunity to compliment Ed Thias and all those involved in our recent Annual Meeting. St. Louis has been one of the leading

metropolitan areas to facilitate and execute a tremendous Urban Renewal program, which is reported to have expended some 400 million dollars to date, and anticipating more in the future. The riverfront downtown area certainly has a fine new look.

To comment briefly on our business meeting, concerning the possible future affiliation of MARA into a State AIA Chapter, it was apparent to this writer, that those expressing their opinion both pro and con, were thinking of the long term future good for the Architectural Profession. And though this issue poses a threat to divide us, I am optimistic that architects, due to the necessities of the times, will find that we must all work closer together for the common good. The National AIA has certainly taken some very progressive and impressive steps in many fields affecting us all. To name a few, I would mention their Public Relations co-ordination nation-wide, their progress with departments of the Government, such as the adoption of a modified edition of the General Conditions. There is work being done for the future use of computerizing specifications and disseminating information from each state to its chapters.

It is my firm belief that the majority of our members will be in favor of whichever solution serves the Architectural profession the best.

I want to express appreciation that George Kasabaum, the National AIA President, could take time from his busy schedule to attend and participate in our business meeting.

Hal W. Hawkins  
Editor

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IFC	THE COVER — Just as your MISSOURI ARCHITECT was about to be printed, the Mo. General Assembly in an over-time session gave final approval to MARA's Senate Bill 117 which revises the state's registration laws. The bill's title makes a timely cover for MARA members who have worked long and hard for this law. After being signed by the Governor, the new law will take effect Oct. 13th of this year.
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### MISSOURI ARCHITECT

Editor — Hal W. Hawkins  
Staff — Wendell E. Locke

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Shown at head table at banquet are, l. to r., President James T. Darrough, speaker Alfred Roth, Mrs. Edward J. Thias, and Annual Meeting Chairman Edward J. Thias.

## ... Architects Meet in St. Louis

Coombs named new Prexy

Kenneth E. Coombs, Kansas City, was elected President of MARA at the May 16-18 annual convention in St. Louis. Hal W. Hawkins, Springfield, was elected to the Vice President's post; Gerhardt Kramer, St. Louis, was elected Secretary; and C. Wynn Brady, Columbia, was elected Treasurer.

Directors elected were: Kenneth Coombs and Kenneth McCall, both from Kansas City; Milton Bischof, Theodor Hoener and Thomas S. Millot, all from St. Louis; Wayne D. Johnson, Springfield; and Byron Foust, Cape Girardeau.

The election of Directors followed approval of extensive By-Laws changes which increased the membership on the Board to twelve, and provides that all Officers, except the president, shall also be Directors and, hence, shall have a vote.

Until the change, Officers attended Board meetings but had no vote on the matters discussed.

Members also amended the By-Laws to allow the annual meeting to be held in the spring, thus giving the Board three months in which to designate the annual meeting date.

Kansas City was unanimously selected by the new Board for the 1970 convention site.

The major portion of the business meeting, which ran from 9:00 a.m. until 4:15 p.m., interrupted

only for the Luncheon program, was discussion of the proposal by the Long Range Planning Committee that MARA affiliate with AIA.

Probably few issues in the history of MARA have sparked as much discussion at an annual meeting as did the AIA affiliation proposal, which had been outlined in a letter from the Long Range Planning Committee to the full membership prior to the meeting.

The discussion was culminated with the 29-4 vote approval of the following motion:

"That the new MARA Board be authorized by the members present at this annual meeting to develop the organizational and administrative procedures necessary toward affiliation of MARA with American Institute of Architects and report its recommendations at a special meeting of MARA this fall."

Committee reports at the business meeting included a report of the Legislative Committee, given by Chairman Maxwell T. Sandford, wherein he outlined all the bills of interest or concern to MARA which were pending in the legislature. Roy J. Pallardy, member of the Ad Hoc Legislative Committee sponsoring MARA's two bills, a revision of the registration law and a statute of limitations for architects, engineers and contractors, reported on the status of the two pieces of legislation.

Other committee reports heard were Ethics Committee, Theodor Hoener, Chairman; Membership Committee, Donald P. Wilson, Chairman; State School Committee, G. Peter Keleti, Chairman; Insur-

**ARCHITECTS' DAY 1969** is proclaimed by Missouri Governor Warren E. Hearnes as MARA President James T. Darrough looks on. The proclamation was signed by the Governor in his office at the State Capitol.

ance and Fees Committee, Robert J. Koppes, Chairman; Natural Beautification Committee, Kent Pollard Smith, Chairman; and a report on the new format of the Missouri Architect, given by Executive Director Wendell Locke.

James T. Darrough gave the State School Committee report in the absence of Chairman Keleti, and Wayne D. Johnson gave the Natural Beautification Committee report for Chairman Smith.

At lunch, Joseph Badarocco, Chairman of the Board of Aldermen, St. Louis, extended a welcome to MARA members from the City of St. Louis.

Luncheon speaker was Missouri Senator, John J. Johnson, who delivered what was considered an outstanding talk. He was introduced by Milton J. Bischof, St. Louis.

Another highly outstanding feature of the Luncheon program was a slide presentation and talk on the development of the St. Louis Riverfront area by architect Arthur F. Schwarz, recognized as the chief architect of the exciting idea for renewal of downtown St. Louis.

Schwarz was introduced by Nolan Stinson, President of the St. Louis Chapter, AIA.

Roy J. Pallardy gave a luncheon report on the activities of the Interprofessional Committee, chaired by Seth Evans.

Chairman of the Education and Awards Committee, Joseph J. Oshiver, presented a plaque to student winner Kurt Schwarz whose design of a vacation home won him a \$300 architectural scholarship. With winner Schwarz was his high school principal from Lindbergh High School, St. Louis. This was the second consecutive year that a Lindbergh High student won first place in the MARA student design competition. A full report of this year's design contest is given in this issue of your Missouri Architect.

A number of notables were introduced at Architects' Day 1969. These include St. Louis AIA Chapter President, Nolan Stinson, Kansas City AIA Chapter President, Robert J. Koppes, Springfield AIA Chapter President, Hal W. Hawkins, Regional AIA Director, Rex Becker, and National AIA President, George Kassabaum.

Also introduced were Paul N. Doll, former MARA Executive Director; Clarence F. Watson, Immediate past President of the Construction Specifications Institute; and Roy Murphy, President of the National ARA.

Business session scene as committee reports are heard



Upper left, Joseph Badarocco, Chairman of the Board of Aldermen, St. Louis, welcomes MARA convention delegates. Upper right, Louis Hamig, member of the Mo. State Board of Registration for Architects and Professional Engineers, speaks briefly to the luncheon gathering. Center left, Luncheon Speaker, Senator John J. Johnson, delivered stimulating and entertaining speech. Center right, Nolan Stinson, President of St. Louis Chapter of AIA, introduces Arthur F. Schwarz. Bottom left, Roy J. Pallardy reports on Interprofessional Committee activities for Chairman Seth Evans. Bottom right, Arthur F. Schwarz describes St. Louis Riverfront development to audience viewing slides.

## ... Alfred Roth featured Speaker

At 1969 Architects Day In St. Louis

Uniform community planning is the greatest challenge facing architects today, according to world-renowned architect, Alfred Roth.

Professor Roth was the featured speaker at MARA's banquet, on Architects' Day, at Stouffer's Riverfront Inn, St. Louis.

The urgent need for increased community planning, he said, has been caused by the population explosion and the resulting burden it has placed on educational, cultural and transportation facilities.

"A basic principle of successful community planning is to achieve unity of design and other elements in any given development, much like the unity found in European towns," he said.

Roth, critical of certain young architects who feel that a revolution is needed in architecture, stated that the basic principles of modern architecture developed in the last 50 years are sound. "Evolution is needed — not revolution," he said.

He also criticized commercialized architecture undertaken with profit as a motive.

"But even if the commercialized architecture is profitable, it is really a failure," he said "because it does not fulfill its real purpose which is to contribute to the happiness of people."

Architecture of any building must be more than a free-form expression of the designer's feelings, he said. "It must serve the needs of those who use the building," he emphasized.

"Commercialized architecture is produced for the profit of the producers — architects, builders, developers, landlords and others — rather than for

the users," he said. "It cannot fulfill its purpose to serve the manifold needs of man in society.

Functionalism is not dead, he said. What our architecture badly needs today is not a new revolution but constant and undisturbed evolution of its basic principles and aims.

He stressed the need for urban planning. The rapid growth of the population calls for rapidly increasing endeavors to keep on producing adequate homes, schools, working places, transportation facilities, recreational facilities, health, social and cultural institutions, he said.

Roth is currently a professor of architecture at the Swiss Federal Institute of Technology in Zurich. From 1949-52 he was a visiting lecturer at Washington University's School of Architecture. Many of his former students, MARA members, were in the audience to hear him speak.

He illustrated his talk with slides of some of the major structures he has designed throughout Europe and the Middle East.

In 1953, he was a visiting professor at the Harvard University School of Architecture. His early education was in the office of Le Corbusier in Paris, France, and he supervised the construction of Le Corbusier's two houses at the German Werkbund exhibition in Stuttgart, the first international exhibition in Europe on modern architecture.

His reputation as one of the world's leading authorities of contemporary design was borne out by his excellent presentation to Missouri's architects.



Noted architect Alfred Roth is shown with Gateway Arch as backdrop from floor high up in Stouffer's Riverfront Inn.

## ... Report of Education and Awards Committee

The interest displayed last year by high school seniors throughout the State of Missouri in participating in an architectural design program stimulated this Committee, with the approval of the Board of Directors, into the continuation of this competition during 1968-1969.

The Committee prepared an introductory letter which was forwarded by the MARA Office in September, 1968, to each of the Superintendents of districts containing senior high schools. This letter described the objectives of the competition and encouraged suggestions prior to the preparation of the program. Approximately a dozen letters were received from all parts of the State, some with opinions, some with suggestions, but all with approval and encouragement for such a competition.

Two design problems were prepared and submitted to the Board of Directors. By means of a vote one problem was selected and qualifications reviewed and refined. Every effort was made in the description of the program to provide interest, familiarity and ease of preparation.

The program entitled A NEIGHBORHOOD CLUBHOUSE was distributed before the end of 1968 and called for an April 4, 1969 deadline.

Eighteen entries were received (an increase of five over last year).

Four from St. Louis

Two from Charleston

Two from Springfield

One each from Bertrand, Camdenton, East Prairie, El Dorado Springs, Kansas City, Lee's Summit, Mexico, O'Fallon, Olivette and Fulton.

The Jury met on Friday, April 11, 1969, in the MARA Office at Jefferson City and after several hours of interesting review and discussion made the following awards:

**FIRST PRIZE** — \$300.00: Kurt Schwarz, St. Louis, Student at Lindbergh High School.

**HONORABLE MENTIONS:** Dan L. Spickard, Springfield, Student at Glendale High School; Dennis Feezor, Charleston, Student at Charleston R-I High School.

The Jury consisted of: Kenneth Coombs, Kansas City — Vice President; Donald D. Buller, Sedalia — Director; Gerhardt Kramer, St. Louis — Director; Joseph J. Oshiver, Kansas City — Chairman.

### Conclusions and Recommendations

This year again indicated a desire on the part of the high schools to participate in architectural programs developed by a professional organization such as MARA. Each communication received from administrator, instructor or student often revealed the problems being faced in encouraging the study of architecture. Each design entry alerted the Jury to the degree and type of training now being offered in the high schools throughout the State. The Com-



Joseph J. Oshiver

mittee has retained each letter received and the comments made by the Jury regarding each of the entries.

The Committee encourages more dialogue with the secondary school administrators and instructors of the State preferably by local architects. Such dialogue can lead to greater appreciation of the Architect and Architecture.

The Committee also recommends increasing the prize money to a total of \$500.00 where the First Prize will continue to be \$300.00 with a Second and Third Prize of \$150.00 and \$50.00 respectively. The category of Honorable Mention is to be eliminated.

### EDUCATION AND AWARDS COMMITTEE

Joseph J. Oshiver, Chairman

Kenneth Coombs, Liaison to the Board

John L. Daw

All of Kansas City

### MISSOURI ASSOCIATION OF REGISTERED ARCHITECTS

#### STUDENT ANNUAL AWARD — 1968-69 ENTRIES

Kurt Schwarz, 12611 W. Watson Road, St. Louis, Mo. 63127

Student at Lindbergh High School

#### FIRST PRIZE

Dan L. Spickard, R.R. #12, Box 332, Springfield, Missouri 65804

Student at Glendale High School

#### HONORABLE MENTION

Dennis Feezor, Route 1, Charleston, Missouri 63834

Student at Charleston R-I High School

#### HONORABLE MENTION

Robert Williams, Jr., 16 Hacienda Drive, St. Louis, Missouri 63124

Student at Horton Watkins High School

Paul Lustig, R.R. #1, Box 64-M, Camdenton, Missouri 65020

Student at Camdenton High School

Continued on page 10



Professor Roth, left, chats with Mrs. George Kassabaum and George Kassabaum, President of the American Institute of Architects.



View of Gateway Arch from top of Stouffer's Riverfront Inn, site of MARA's 1969 Convention.

Happy group of architects and ladies at a table in restaurant between Convention sessions.



## Education and Awards

From page 8

- Tom Rassieur, University City, Missouri  
Student at University City High School, St. Louis, Missouri
- Sam Reinstein, University City, Missouri  
Student at University City High School, St. Louis, Missouri
- David L. Schaab, 6 Bridlewood Drive, R.R. #2, O'Fallon, Missouri 63366  
Student at O'Fallon High School
- Mike Cherches, 925 East Love Street, Mexico, Missouri 65265  
Student at Mexico High School
- Milus Wallace, Box 549, Route 2, East Prairie, Missouri 63834  
Student at Charleston R-I High School
- A. P. Burk, R-1, Box 302, Charleston, Missouri 63834  
Student at Charleston High School
- Mark Bryant Pickell, 904 South Main Street, El Dorado Springs, Missouri 64744  
Student at El Dorado Springs High School
- Philip Montague Smith, IV, Williamsburg, Missouri 63388  
Student at Fulton High School
- Salvatore C. Kuenzler, 9341 Llewellyn Lane, Olive, Mo. 63132  
Student at Horton Watkins High School
- E. Edward Muckey, 704 S. Douglas, Lee's Summit, Missouri 64063  
Student at Lee's Summit High School
- Steven Peters, Route 1, Bertrand, Missouri 63823  
Student at Charleston R-I High School
- Roy Lopez, 1647 E. Page, Springfield, Missouri  
Student at Parkview High School
- Lee Sims, 7428 Wyoming, Kansas City, Missouri 64114  
Student at Southwest High School

Roy Pallardy, left, and C. Wynn Brady hold serious conversation with Donald D. Buller (hands shown at left).



## St. Louis AIA Publishes Architectural Survey of Lafayette Square

The Preservation Committee of the American Institute of Architects, St. Louis Chapter, has just published an architectural survey of Lafayette Square, the historic neighborhood surrounding Lafayette Park.

All of the buildings in the area have been evaluated for their architectural importance in the fabric of the neighborhood. The results of this study are shown graphically on a map just published.

One of the principal purposes of this study is to emphasize the importance of architecturally significant historic neighborhoods and areas to the life of the City. The houses around Lafayette Park are of much greater worth to the city collectively, than as isolated examples. Just to save a few specimens would be to miss the principal quality of this fine area which depends on rows and groups of harmonious structures for its strong architectural effect. Included on the map are recommended boundaries for a possible historic district. (See Map, page 11)

## FRANK GRIMALDI NAMED 1969 "MAN OF THE YEAR"

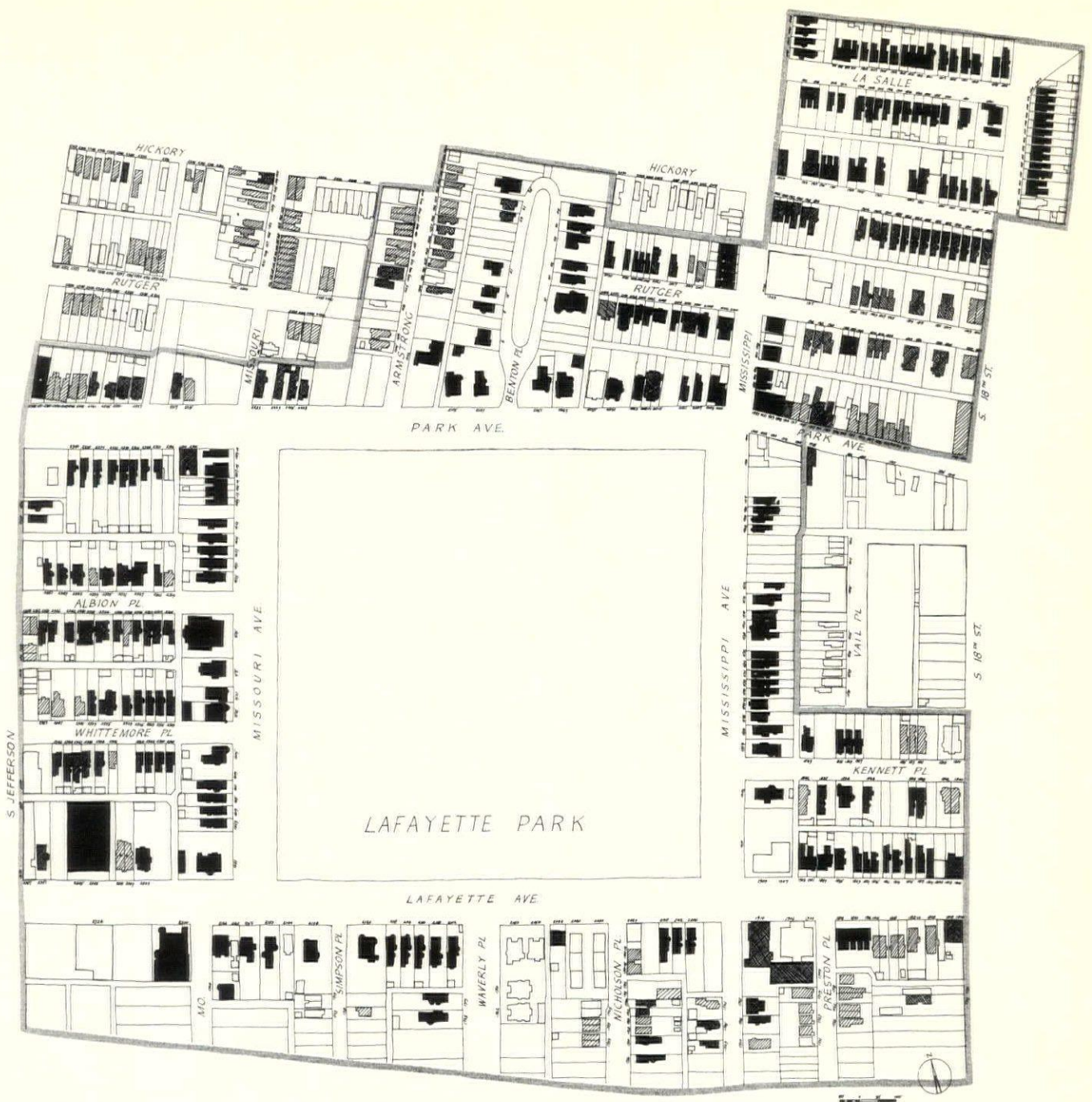
Frank Grimaldi, architect, has been named Man of the Year for 1969 by the University of Notre Dame Alumni Association in Kansas City. The award was presented by James D. Cooney, national executive secretary of The Notre Dame Alumni Association, at recent Universal Notre Dame Night ceremonies, for distinguished service to profession and community.

Services by Grimaldi cited in the award include Metropolitan Kansas City Easter Seal Society campaign chairman in 1966-67 and Kansas City Building Code Board of Appeals chairman since 1966. He also has served since 1965 by appointment of the Governor as a member of the Missouri State Board of Registration for Architects and Engineers, and is a past president of the Kansas City Chapter of the American Institute of Architects.

A graduate of the Notre Dame school of architecture in 1947, Grimaldi has practiced 22 years with Edmund L. Bower in Kansas City. The firm is Bower and Grimaldi, with offices at 3543 Broadway.

Head table scene at Luncheon as screen is being adjusted for showing of slides by Arthur J. Schwarz.





## ARCHITECTURAL SURVEY OF LAFAYETTE SQUARE-ST. LOUIS

BY MEMBERS OF THE COMMITTEE ON THE PRESERVATION OF HISTORIC BUILDINGS OF THE ST. LOUIS CHAPTER OF THE AMERICAN INSTITUTE OF ARCHITECTS:

### LEGEND

- most significant architecturally
- architecturally significant
- some architectural interest for neighborhood
- little or no architectural interest (or in ruins)
- recommended boundaries for possible historic district

- for the neighborhood of Lafayette Square as a whole -  
- just to save a few of the best houses would be to miss the primary quality of the area - the houses are valuable as a group, as streets and neighborhood, not in isolation -

RICHARD L. BLISS  
JOHN ALBURY BRYAN  
W. PHILIP COTTON, JR.  
GERHARDT KRAMER

Map based with permission on SWANSON maps  
drawn by W.P.C. Jr. Feb.-June 1969

# Official

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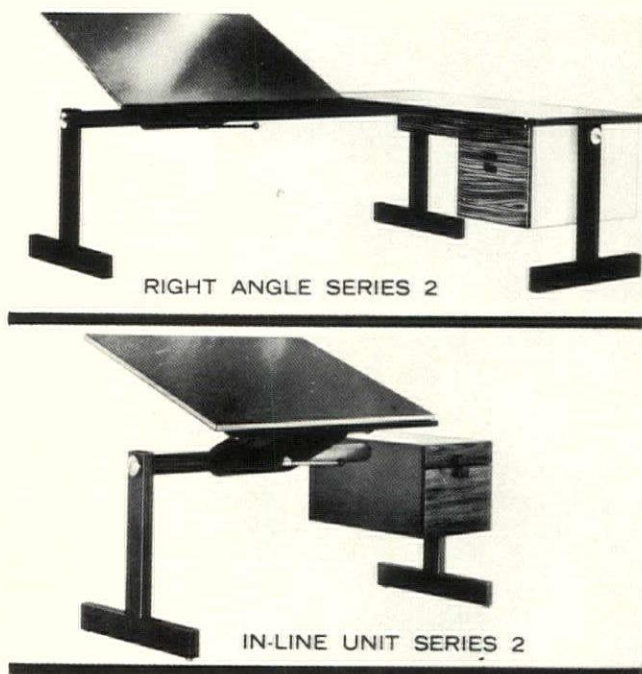
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**E**ACH OF THE PAGES IN THIS magazine is four noses high and three noses wide. Who says so? The editor says so. And whose nose is he using as a standard of measurement? His own, naturally. People have been doing it that way since an Egyptian pharaoh decreed that the cubit was the distance from his elbow to his fingertips.

But now, of course, the magazine is in your hands—and you're not within an arm's length of a pharaoh or of a nosy editor. So you can remeasure the page in your own terms: the length of your nose, the length of your longest eyelash, or the length of the miniskirt that just caught your attention.

Measuring things in such personal terms is great for the ego. Unfortunately it raises hob with life unless you happen to be a hermit. Either everyone must agree to some kind of standards—or it's the Tower of Babel business all over again.

This morning when you shut off the alarm, you were well aware that a standard, measured amount of time had passed. But your morning reveries probably didn't include the thought that the motor in your electric clock operates accurately only because the current coming into your house is not 50 cycles, not 70 cycles, but exactly 60 cycles per second.

Nodding over your second cup of coffee while the radio exuberated beside you, you probably were oblivious to the fact that the station was zeroing in exactly on 570 kilocycles or 1450 kilocycles or whatever—and thereby avoiding a cacophonous din of conflicting programs.

On your way to work, you may have been brought up short at the familiar sight of a yellow school bus and automatically put your foot on the brake. That shade of yellow would alert you anywhere because it is standard throughout the country.

Standards have been a part of your life all day. Your world is made to measure.

It hasn't always been that way. Over the long course of history, there's been much more confusion than consistency about standards of measurement.

That pharaoh who stretched out his arm and said "from here to here is a cubit" was not the first or the last to give measurement a personal touch. By using man as a measure, we have collected such standards as the foot, the hand, the palm, the digit (the width of a finger), the great span (the maximum spread between the thumb and the little finger), the little span (the distance between the outstretched forefinger and thumb), and the fathom (the distance between a man's outstretched arms).

The trouble, of course, is that there are variations from man to man, and even from pharaoh to pharaoh. The ancient Egyptians tried to overcome this by introducing stone cubit bars as standards. They even went so far as to dole out death sentences to subjects who failed to bring in their cubit bars for



## HOW LONG IS A FOOT?

**Time was when it depended on whose foot you were using as a standard of measurement.**



comparison with the Royal Master every full moon.

Measuring the weight of things came along later than measuring distance. But even then, weighing was, for several thousand years, restricted to gems, gold, silver, and other items of great value. Ordinary things were either counted or measured by volume. Primitive? Yes, but then we still buy eggs by the dozen rather than by the pound.

One side result of this tendency to restrict weighing to precious things was to get money and the units of mass measurement mixed together. Even today we have two kinds of pounds: the lb. kind and the £ kind.

The Middle Ages had their moments, but they didn't do much for straightening out measurements. It was an era when "home rule" went wild, and every duchy (and sometimes every village) set up its own standards.

King Henry I of England was one of those who thought the whole situation was terribly medieval and tried to do something about it. Taking a cue from the pharaohs, he established the standard yard as the distance between the tip of his nose and the end of his thumb.

The king had a lasting effect on seamstresses, since a woman who's buying cloth still often measures it from her nose out along her outstretched arm—à la Henry I. But his try for widely accepted standards was mostly a losing battle. The medievalists went on measuring an acre as the amount of land a man could plow in a day—and a rod as the combined length of the left feet of the first 16 men who came out of church on Sunday.

Some of the tales about the Middle Ages' attitude toward standards may be apocryphal, but in unvarnished truth the medieval foot did meander all

the way from 10 inches to 20 inches, the pound varied from 6 to 18 ounces, and one of the common definitions of an inch was "the space occupied by three round, dry barleycorns lined up in a row."

People in those days also liked to weigh different materials by different standards and use different kinds of measuring units for different crafts. Some of this anarchy is still with us. We have *avoirdupois* pounds and *troy-weight* pounds. And we measure printer's type in points, land in rods, horses in hands, and gems in carats (which was based on the size of the carob seed).

But the days may be numbered for many of these souvenirs of the past. In the modern world, the trend seems to be irreversibly toward exact standards that are widely applicable.

This trend got under way almost as soon as the Middle Ages began losing their grip. Venice, which has been called the first modern state, may also have established the first true assembly line that depended on standard, interchangeable parts. The Venetians built a standardized trading vessel that could be quickly converted into a warship. After a few preliminaries in the shipyard, the vessel was towed slowly down a canal and, as it passed, workmen reached out of windows on either side and fitted it with equipment. When the vessel reached the end of the canal, everything necessary was on board from oars to armaments.

Wrote one startled Spanish visitor to Venice in 1436: "In this manner, there came out ten galleys fully armed between the hours of three and nine."

In the New World, the Americans were quick to perceive the difficulties that could arise from a lack of standardized measurements. For example, after the Fire of 1689, the city fathers of Boston declared it a civic crime for brickmakers to make bricks other than nine inches by four inches by four inches in size. They wanted the city rebuilt as speedily and economically as possible.

One of the many other Americans who effectively championed standardization was Eli Whitney. If he had never invented the cotton gin, he still might be remembered in history books as "the father of U.S. mass production."

The government gave Whitney a contract to produce 10,000 muskets, and he set up a factory and went to work. After dividing the task into a number of steps, he put separate groups of men to work on each step. Each musket part, copied from a model, was interchangeable with its standardized counterpart in other muskets.

The story is told that officials got impatient with Whitney and called him in for an accounting. He arrived with crates and crates of parts—and then amazed the officials by assembling complete muskets from parts picked at random.

What Whitney did for ordnance, other Americans began doing for other branches of business. In the oil and gas industry, the need for standardization of materials and equipment was recognized early by the American Petroleum Institute, which marks its fiftieth anniversary this year.

For example, there was the matter of pipe. A lot of companies manufactured it, but few of them made it in the same sizes and with the same threads. A president of the Institute described the situation as "a wilderness of individual effort." Oilmen in the field tended to use saltier phrases when they found themselves with a two and five-eighths inch pipe in one hand and a two and seven-eighths inch pipe in the other.

But the language got less blue as the situation got brighter. Five years after the adoption of the first API standards, the number of pipe sizes had been cut from 200 to 95, the number of cable-tool joint sizes from 300 to 14, and the number of derrick sizes from 200 to 9.

Such standardization has saved money (\$200 million annually on oil-industry equipment costs alone) and promoted the kind of efficiency that permits the industry to produce more than a barrel of petroleum products from a barrel of crude oil.

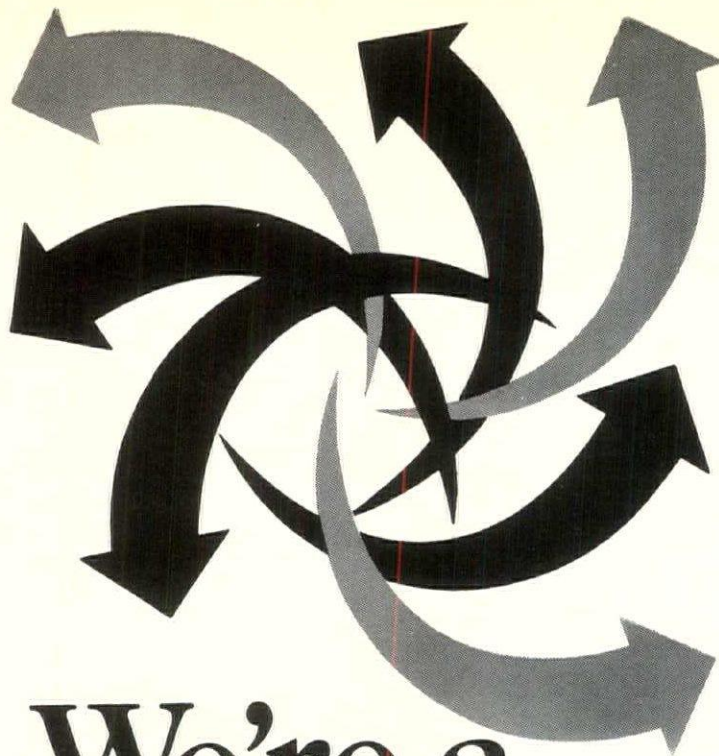
The API's efforts also extend to the important matter of fluid-measurement procedures. When it comes to such things, oilmen are fuss-budgets; they keep measuring their product over and over.

Crude oil, for instance, is measured as it's pumped out of the ground into pipelines, as it's pumped into storage tanks, as it's pumped *out* of storage tanks, as it's pumped into the refinery—and numerous times while it's being pumped around inside the refinery. Then, if it comes out the other side as gasoline, it's measured before it's delivered to the bulk storage plant, as it's pumped into the delivery truck, and as it's pumped out of the delivery truck. At each step, the measuring is done by API-developed procedures.

Why do oilmen go to such trouble? Their reason: they want to get accurate measurements for themselves so they can give full measure to their customers.

Measuring things has moved light years ahead of the days when inches could be measured in barleycorns and feet by any foot that happened along. Standardization has become an exacting and extremely serious matter.

Just how serious can be gathered from the fact that the U.S. copy of the international standard of weight is never touched by hand. When it must be taken from its vault at the National Bureau of Standards, two persons are always assigned to the job. One of them uses a pair of forceps to carry the standard. The second person has a much stranger task: he's there to catch the first man in case he falls! □



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# MISSOURI ASSOCIATION OF REGISTERED ARCHITECTS

308 East High Street

Jefferson City, Mo. 65101

## BY-LAWS

Originally formulated and approved October 19, 1952.

Revised several times by the membership, the most recent being May 17, 1969

In lieu of the adoption of a formal Constitution such as is ordinarily adopted by voluntary, incorporated associations, the MISSOURI ASSOCIATION OF REGISTERED ARCHITECTS hereby adopts as its organic law Chapter 352, Revised Statutes of Missouri, 1959, entitled "Religious and Charitable Associations," under the provisions of which Chapter the Association does hereby adopt for its government and support and the management of its property, By-Laws as follows:

### ARTICLE I

#### Name

**Section 1. Name.**—The name of this Association shall be the MISSOURI ASSOCIATION OF REGISTERED ARCHITECTS.

### ARTICLE II

#### Principal Office

**Section 1. Principal Office.**—The legal domicile of the Association and the location of its principal office, shall be in Jefferson City, Cole County, Missouri, but such branch offices as may be deemed necessary in furtherance of the purposes of the Association may be established elsewhere by the Board of Directors.

### ARTICLE III

#### Duration

**Section 1. Duration.**—The duration of the Association shall be perpetual.

### ARTICLE IV

#### Purposes

**Section 1. Purposes.**—As set forth in its Charter, as the same appears of record in the Office of the Secretary of State of Missouri, the MISSOURI ASSOCIATION OF REGISTERED ARCHITECTS is formed for the following purposes.

(1) To improve the relations between members of the architectural profession and the general public through a program of education and cooperation.

(2) To encourage the active participation of architects in civic affairs generally, to the end that the general public may become better acquainted with and more fully appreciate the contributions of the architectural profession toward the peace, health, culture and security of society, and to the end that all Missouri architects may become more keenly conscious of their obligations to the public, and their duty as members of the profession, and as citizens, to contribute their full share toward the preservation of the peace, health and safety of the citizens of this State.

(3) To encourage its members, by both precept and example, to obey the laws of the State of Missouri, requiring and providing for the registration of architects, and to assemble and disseminate such information through the State of Missouri, as will tend to induce the public generally to obey said laws.

### ARTICLE V

#### Membership

**Section 1. Membership.**—Persons registered as Architects under the laws of the State of Missouri and in good standing on the records of the State Board of Registration for Architects and Professional Engineers shall be eligible for membership in the Association.

**Section 2. Affiliate Membership.**—Persons registered as Architects-in-training under the laws of the State of Missouri and in good standing on the records of the State Board of Registration for Architects and Professional Engineers shall be eligible for membership in the Association.

Affiliate members will be entitled to all privileges of full membership, except for voting in the election of the Board of Directors or holding elective office. Upon architectural registration, the privilege of membership will expire at the end of that calendar year and full membership will be required in subsequent years.

#### Section 3. Membership may be Terminated, when.

—If any member of this Association shall be found guilty, on final judgment of any court, of any criminal offense, and a certified copy of such judgment filed with the Secretary of the Association, or if any member of this Association shall cease to be in good standing on the records of the State Board of Registration for Architects and Professional Engineers and notice to such effect is received from the Secretary of the Board, the name of such member shall be dropped from its membership roll, and his membership in the Association terminated without further action.

#### Section 4. Dismissal after Hearing.

—Any member who shall defraud the Association, or who shall libel or slander any member thereof, shall, upon conviction by a majority vote of the members of the Association, after a hearing, be dismissed from membership in the Association.

#### Section 5. Notice of Charges Against Member.

—Before any member of the Association shall be expelled as provided in the preceding section of this article, he shall be served with a copy of the charges upon which he is to be tried, the name of the complaining witness, and all other witnesses against him, and not less than ten days' notice of the time and place of the annual meeting at which such charges shall be heard.

## ARTICLE VI

### Officers of The Association

**Section 1. Officers — Election and Term of Office.**—The officers of the Association shall be a President, Vice President, a Treasurer, and a Secretary, who shall be elected by the Board of Directors in regular annual session, and who shall serve for one year next following date of their election until their successors are elected and installed.

**Section 2. Qualifications.**—Each elective officer of the Association, and each member of its Board of Directors, shall be a member in good standing of the Association and shall reside and be a qualified elector in the State of Missouri, or, shall have his principal office and place of business in the State of Missouri.

**Section 3. Certain Members Ineligible as Officers or Members of Board of Directors.**—The President shall not be a member of the Board of Directors. The Vice President, Secretary, and Treasurer may or may not be members of the Board of Directors. Provided that if the Vice President, if a director, shall succeed to presidency a vacancy shall be created on the Board of Directors and a new director shall be nominated by the President and approved by a majority of the Board of Directors. The newly elected Director shall serve only until the next meeting of the Association at which meeting a Director shall be elected to serve out the unexpired term.

**Section 4. President—Presiding Officer.**—The President of the Association shall preside and preserve order at all meetings of the Association, and at all meetings of its Board of Directors, and sign all documents requiring the signature of the President.

**Section 5. President—Member of all Committees.**—The President shall, by virtue of his office, be a member, without vote, of all committees at large of the Association, and of all committees of its Board of Directors.

**Section 6. President—May Vote as Director.**—The President may vote only in case of a tie vote of the Directors and Officers voting.

**Section 7. Vice President—To Act, When.**—In the event of the absence, or inability of the President to perform his official duties, the Vice President shall, during the period of such absence or inability, perform the duties of the President.

**Section 8. Secretary.**—The Secretary of the Association shall attend all its meetings, and keep a fair record of all its proceedings.

**Section 9. Treasurer.**—The Treasurer of the Association shall receive, be responsible for, and disburse all funds of the Association coming to his hands as its Treasurer, as authorized and directed by its Board of Directors.

**Section 10. Executive Director.**—An Executive Director, who may, or may not, be an architect or a registered architect, may be employed by the Directors, and he shall serve for such a period of time as may be agreed upon. He shall attend all meetings of the Board of Directors of the Association, and keep a fair record of the proceedings of said meet-

ings, and perform such other duties as may be required of him under the terms of his appointment or employment.

**Section 11. Removal from Office.**—Any officer of the Association may be removed from office if found guilty by  $\frac{2}{3}$  vote of the membership present at any regular or special meeting of any offense which affects the interest or good government of the Association, or of any offense which is indictable under the laws of the land.

## ARTICLE VII

### Board of Directors of The Association

**Section 1. Board of Directors—Authority of.**—The business and affairs of the Association shall be under the control and management of a Board of Directors; provided, the Board of Directors shall not convey, or authorize the conveyance of real estate belonging to the Association, dispose of any permanent funds, or any trust funds, of the Association, or take any steps for its corporate dissolution, without first being so directed by a majority vote of its members.

**Section 2. Directors—Election.**—There shall be a Board of Directors consisting of thirteen (13) members, one of whom shall be the immediate Past President and twelve (12) of whom shall be elected by the members of the Association in regular annual session, and who shall, respectively, serve for the terms provided in Section 3 of this Article, running from the date of their election and thereafter until their successors are elected and installed.

The State of Missouri shall be divided into five (5) Districts: Three (3) of said Directors shall be elected from District I; one (1) of said Directors shall be elected from District II; five (5) of said Directors shall be elected from District III; two (2) of said Directors shall be elected from District IV and one (1) of said Directors shall be elected from District V. The five (5) districts are hereby identified as follows: District I shall include the counties of Worth, Gentry, De Kalb, Clinton, Clay, Jackson, Cass, Bates and all the counties lying north and west thereof. District II shall include the counties of Harrison, Daviess, Ray, Lafayette, Johnson, Henry, St. Clair, Benton, Morgan, Miller, Maries, Gasconade, Montgomery, Pike and all counties lying to the north and east and bounded within. District III shall include the counties of Lincoln, Warren, Franklin, Crawford, Washington, St. Francois, Ste. Genevieve, all counties lying to the east and bounded within the City of St. Louis. District IV shall include the counties of Vernon, Cedar, Polk, Hickory, Camden, Laclede, Wright, Douglas, Ozark and all counties lying south and west thereof. District V shall include the counties of Howell, Texas, Pulaski, Phelps, Dent, Iron, Madison, Perry and all counties lying east and south thereof.

**Section 3. Directors—Terms of Office.**—Each Director shall serve for a term of four (4) years and until his successor is elected and installed; provided the term of office of each of the Directors elected May 17, 1969 and thereafter shall be as follows:

All incumbent members of the Board of Directors shall serve the term of office for which they were elected and until their successor is elected and installed, except for the Directors from the newly created District II whose term of office expires in 1971 for which no successor shall be elected. One Director shall be elected to serve for one year and one Director for two years and until their successors are elected and installed to represent District I; One Director shall be elected to serve for three years and until his successor is elected and installed to represent District III; One Director shall be elected to serve for four years and until his successor is elected and installed to represent District IV; at the Annual Meeting of the Association in 1971 one Director shall be elected to serve for four years and until his successor is elected and installed to represent District III.

Should a Director resign before the expiration of his term of office, a new Director shall be nominated by the President and approved by a majority vote of the Board of Directors. The newly elected Director shall serve only until the next meeting of the Association at which meeting a Director shall be elected to serve out the unexpired term.

**Section 4. Voting Rights.**—No Director, or Officer, of the Association shall cast more than one vote upon any question or matter pending before its Board of Directors.

**Section 5. Annual Report.**—The Board of Directors shall file a written report of its proceedings, with the Secretary, at each annual meeting of the Association. Said annual report shall have attached thereto the report of each committee at large previously filed with said Board of Directors, with such recommendations with respect to such reports as the Directors may deem proper.

**Section 6. Removal from Office.**—Any Director of the Association may be removed from office if found guilty by a  $\frac{2}{3}$  vote of the membership of any offense which affects the interest or good government of the Association, or of any offense which is indictable under the laws of the land.

If a Director should be absent from three successive regular or specially called Board of Directors meetings, other than for illness or other reasonable cause so reported to the President, then the Board of Directors may determine there is a vacancy on the Board of Directors and a new Director shall be nominated by the President and approved by a majority vote of the Board of Directors. The newly elected Director shall serve only until the next meeting of the Association at which meeting a Director shall be elected to serve out the unexpired term.

## ARTICLE VIII

### Committees of Board of Directors of The Association

**Section 1. How appointed—Duties.**—The President, in his capacity as Chairman of the Board of Directors of the Association, shall appoint such standing and special committees of said Board and its Directors as it may by resolution authorize. Each committee so appointed shall have such powers and per-

form such duties as may be authorized by said resolution.

**Section 2. To Consist of.**—Committees of the Board of Directors shall consist exclusively of members of said Board and its Officers.

**Section 3. Confirmation of Appointments.**—All appointments of members of committees of the Board of Directors of the Association, made by the President, shall be subject to confirmation by its Board of Directors and Officers, and no member of any such committee shall enter upon the performance of his duties as such until so confirmed.

**Section 4. Reports.**—Each committee of said Board shall report direct to the Board. No committee of the Board of Directors and Officers shall be required to report to any other committee of said Board.

## ARTICLE IX

### Committees at Large of The Association

**Section 1. How Appointed.**—The President shall appoint such committees at large, standing and special, as the Association may by resolution authorize.

**Section 2. Duties and Reports.**—Each committee at large shall perform such duties as may be required by the resolution authorizing its appointment, and report its proceedings in writing to the Board of Directors. No committee at large shall be required to report to any other committee of the Association.

**Section 3. Composition.**—Committees at large shall be composed of members of the Association, and the President, who shall, by virtue of his office, be a member, without vote, of all such committees.

**Section 4. Confirmation of Appointments.**—All appointments of members of committees at large of the Association made by its President, shall be subject to confirmation by its Board of Directors and Officers, and no member of any such committee shall enter upon the performance of his duties as such until so confirmed.

## ARTICLE X

### Meetings and Quorum of The Association

**Section 1. Meetings.**—The Association shall meet in regular annual session on such date during calendar spring as the Board of Directors may by resolution determine. Special meetings of the Association may be called by the President, with the approval in writing of a majority of the Directors, or on petition of not less than twenty voting members of the Association.

**Section 2. Notice.**—Thirty days' notice in writing shall be given of the time and place of each annual meeting, and of the time, place and purpose of each special meeting of the Association.

**Section 3. Quorum.**—Twenty members of the Association, including those represented by proxy, present at any meeting of the Association, shall constitute a quorum for the transaction of business. A quorum being present, a majority vote of those present in person and by proxy shall be sufficient to decide any question or matter legally coming before such meeting.

## ARTICLE XI

### Meetings and Quorum of Board of Directors of The Association

**Section 1. Meetings.**—There shall be not fewer than two regular semi-annual meetings of the Board of Directors of the Association each year, and such special meetings of said Board as the President may call, with the approval in writing of not less than five Directors and Officers of the Association. The regular semi-annual meetings of the Board of Directors shall be held in April and October. The time and place of the next regular semi-annual meeting shall be fixed by resolution adopted at each regular semi-annual meeting of said Board.

**Section 2. Notice.**—Ten days' notice in writing shall be given of the time and place of each regular semi-annual meeting of the Board of Directors of the Association, and of the time, place and purpose of each special meeting of said Board.

**Section 3. Quorum.**—A majority of the members of the Board of Directors and Officers of the Association shall constitute a quorum at any meeting of said Board. A quorum being present, a majority vote of the Directors and Officers present shall be sufficient to decide any question legally coming before said Board at any regular or special meeting thereof.

## ARTICLE XII

### Proxies

**Section 1. Proxies.**—Members of the Association unable to be present in person may be represented by proxy at any meeting of the Association, but each member of the Association being entitled to the unbiased judgment of each of its Directors or its Officers in the government and support of the Association and the management of its property, no member of the Board of Directors or its Officers shall be represented by proxy.

## ARTICLE XIII

### Voting Rights of Members

**Section 1. Voting Rights of Members.**—Each member of the Association shall be entitled to cast one vote for the election of its directors and one vote for each item of business brought before the Association in regular Annual session, or at any Special Called Meeting, of the Association. No person shall be elected a Director of the Association, or item of business approved, without the affirmative vote of a majority of the members of the Association who are present and voting at any Annual, or Special Called, meeting of the Association.

## ARTICLE XIV

### Dues

**Section 1. Annual Dues.**—The annual dues of the members of this Association shall be fifteen dollars (\$15.00) payable annually on or before the first day of April. All architects registered by the State of Missouri who are 75 years of age or older shall be exempt from payment of annual dues under the designation of "Member Emeritus." The dues of the Affiliate Members shall be one-half that of the Regular Member.

**Section 2. Suspension for Non-payment of.**—Any member who shall fail to pay his dues for the full calendar year on or before the first day of July of the year in which he became delinquent, shall stand suspended without further action on the part of the Association. During the period of his suspension, no member of the Association shall have either voice or vote in any meeting of the Association, or any meeting of its Board of Directors.

**Section 3. Reinstatement.**—Any member of the Association, suspended for non-payment of dues, may be reinstated on or before the first day of April of the year next following date of his suspension, upon payment in full of dues for the year in which he was suspended and annual dues for the year in which reinstatement is requested.

**Section 4. Rights of Membership Forfeited, When.**—The membership of any suspended member of the Association not reinstated as herein provided shall terminate and all of his rights and benefits as such member shall stand forfeited, without further action on the part of the Association, on the first day of April in the year next following date of his suspension, and he may not thereafter become a member of the Association except upon application made and acted upon as if he had never before been a member.

**Section 5. Collection.**—All dues shall be collected by the Secretary, or by some person authorized as his agent, and by the Secretary paid over to the Treasurer of the Association on or before the 10th day of each calendar month next following date of collection thereof.

**Section 6. Liability of Members.**—The dues of members of the Association and any donations or subscriptions to which they may voluntarily obligate themselves, may be collected as any other debt; but, over and above such dues or subscriptions, in no case may any member of the Association be individually liable to the Association, or on any other account, by reason of his membership in the Association.

## ARTICLE XV

### Good Standing

**Section 1. What Constitutes.**—No member shall be in good standing in the Association while under suspension for non-payment of dues, or for any other cause.

## ARTICLE XVI

### Fiscal Year

**Section 1. Co-extensive with Calendar Year.**—The fiscal year of the Association shall begin with the first day of January, annually, and end with the thirty-first day of December next following.

## ARTICLE XVII

### Deposit and Disbursement of Association Funds

**Section 1. Deposits.**—The Treasurer shall be responsible for depositing all money belonging to the Association in such bank or trust company as the Board of Directors may designate.

existing or contract in force prior to the effective date of these By-Laws shall be adversely affected by their adoption.

### Saving Clause

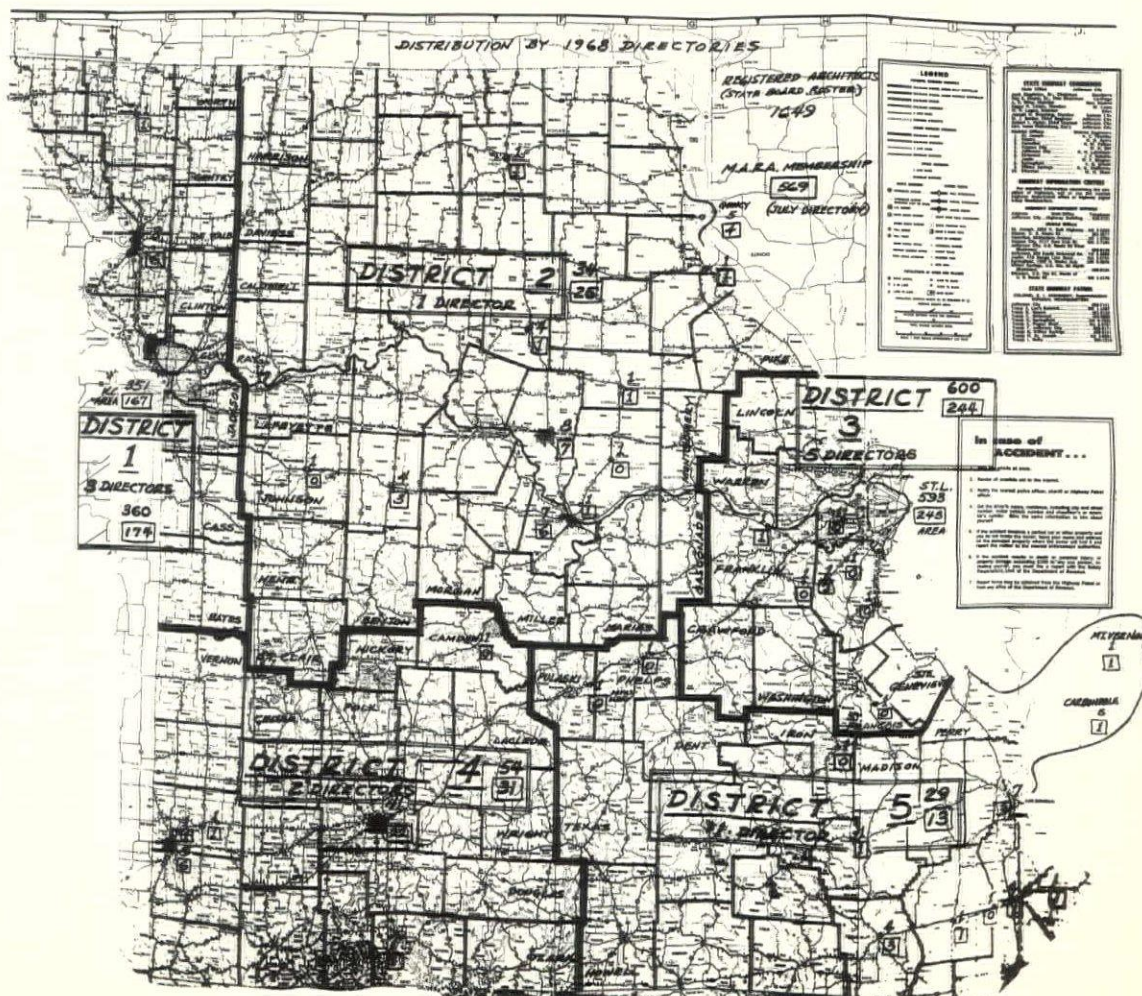
## Amendments

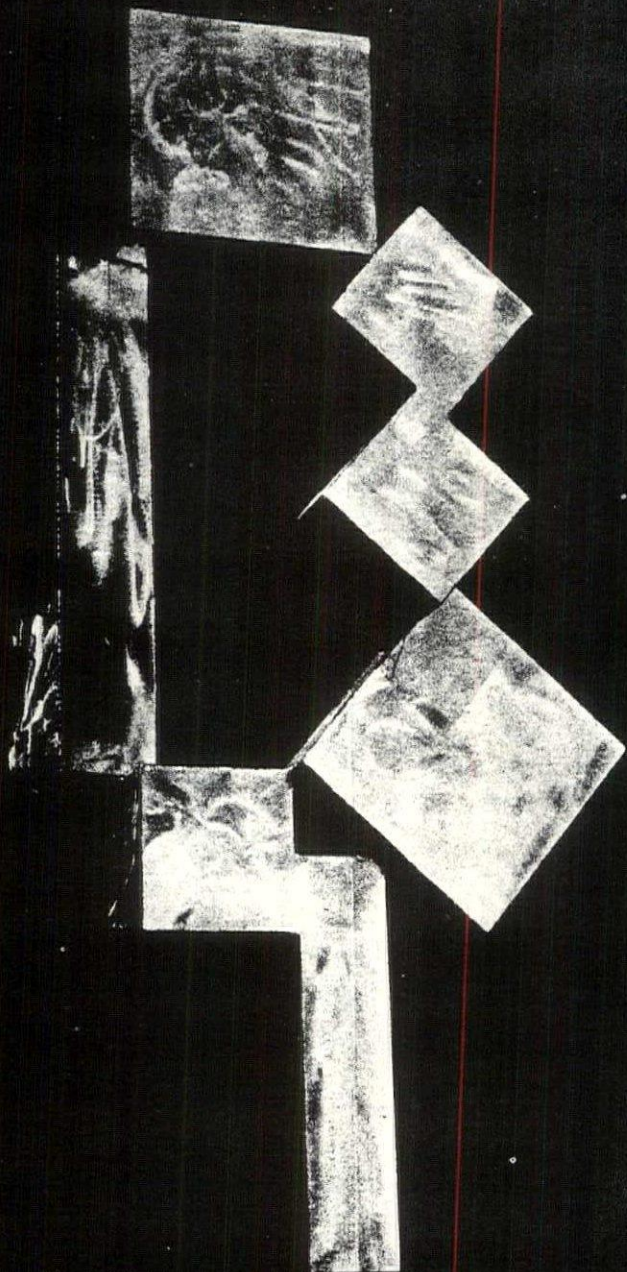
## Records

## Code of Ethics

### Existing Contracts and Obligations

**Section 1. Validity Unimpaired.**—No obligation





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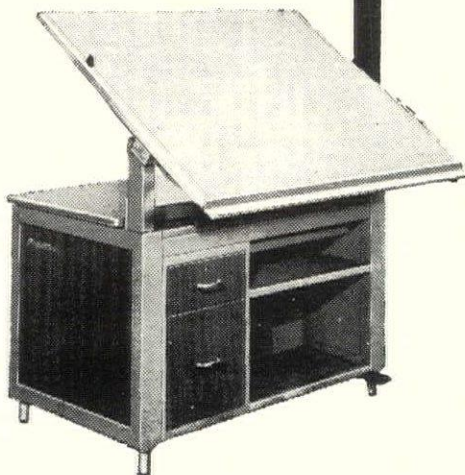
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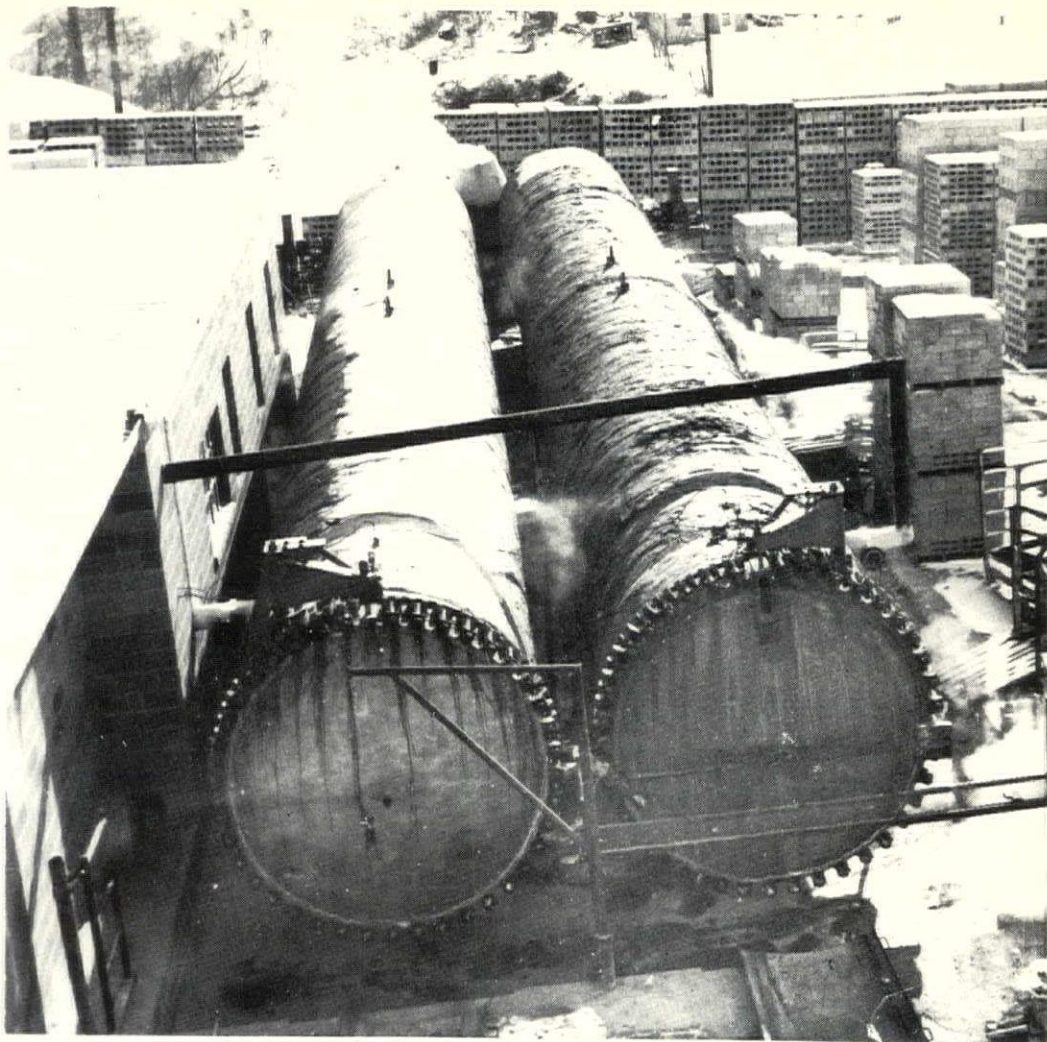
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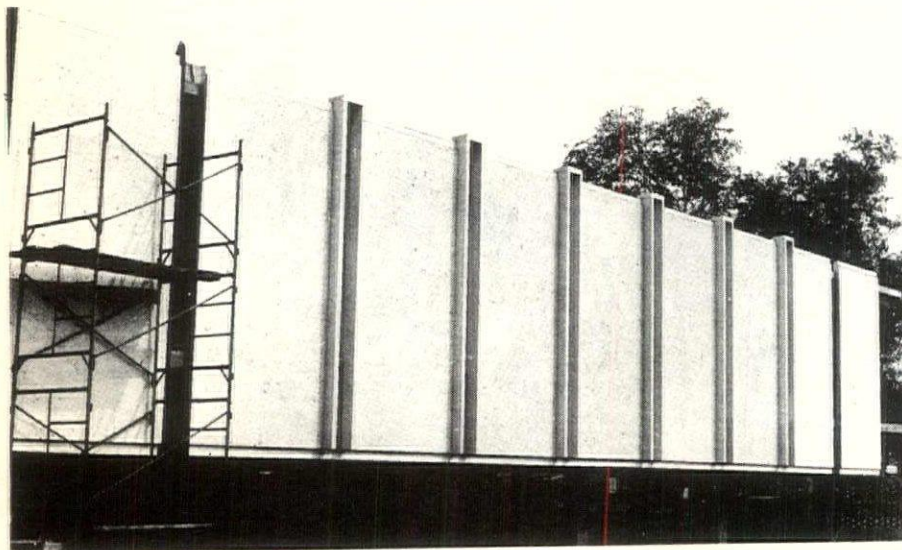
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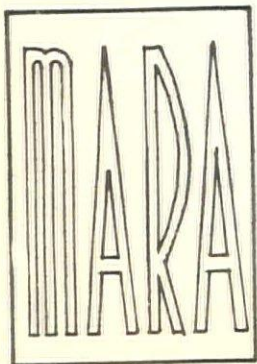
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